

2800905

https://www.phoenixcontact.com/us/products/2800905

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Electronic circuit breaker, 1-pos., active current limitation, 1 N/O contact, plug for base element.

## Your advantages

- · Individually adjustable with protective plugs
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Active current limitation to improve the capacity of the upstream power supply
- · Increased system transparency with integrated remote message function

#### Commercial data

Item number	2800905
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 382 (C-4-2019)
GTIN	4046356690751
Weight per piece (including packing)	35.2 g
Weight per piece (excluding packing)	21.4 g
Customs tariff number	85362010
Country of origin	DE



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## Technical data

#### Notes

General	When mounted in rows without convection cooling, the nominal device current should only be led to a maximum of 80% due to the thermal effect during continuous operation (100% operating factor).  Special precautionary measures must be taken in systems or machines, to prevent components from restarting (e.g., use of a safety PLC).  Parallel connection of multiple circuit breakers is not permitted.
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### Product properties

Туре	Male	
Product type	Device circuit breakers	
Product family	CB E	
Number of positions	1	
No. of channels	1	
Insulation characteristics		
Pollution degree	2	

### Electrical properties

Shutdown time

Undervoltage switch-off

#### General

Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I <sub>N</sub>	6 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
Dielectric strength	max. 30 V DC (Load circuit)
Active current limitation	typ. 1.25 x I <sub>N</sub>
Fuse	electronic
Closed circuit current I <sub>0</sub>	typ. 8 mA (When switched on)
	typ. 17 mA (With alarm output)
Power dissipation	1.19 W (Nominal operation)
Temperature derating	5 A (at 50 °C)
MTBF (IEC 61709, SN 29500)	8320000 h (at 25 °C with 80 % load)
	7410000 h (at 40 °C with 80 % load)
Voltage drop	130 mV (at I <sub>N</sub> )
	10 A DC

130 ms (see time/current characteristic curve)

< 14 V (typ. OFF) > 17 V (typ. ON)



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Max. capacitive load	20000 μF		
Auxiliary contact			
Contact connection type	floating signal contact		
Minimum operating voltage U <sub>min</sub> DC	10 V DC		
Maximum operating voltage U <sub>max</sub> DC	30 V DC		
Minimum operating current I <sub>min</sub>	10 mA		
Max. operating current I <sub>max</sub>	0.5 A		

#### Connection data

#### **Dimensions**

Dimensional drawing	90 45 12.3 ************************************
Width	12.3 mm
Height	45 mm
Depth	52 mm
Complete module width	12.3 mm
Complete module height	90 mm
Complete module depth	77.3 mm

### Material specifications

Color	gray (RAL 7042)
	black (RAL 9005)
Flammability rating according to UL 94	V-0

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP30 (Actuation area)
Ambient temperature (operation)	-25 °C 50 °C (non-condensing)
Ambient temperature (storage/transport)	-40 °C 70 °C
Humidity test	96 h, 95 % RH, 40 °C
Vibration (operation)	3g (according to IEC 60068-2-6, Test Fc)

## Approvals

### UL approval

Identification	UL Listed UL 508
	UL Recognized UL 2367



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S	Shipbuilding approval		
	Identification	DNV GL	
Sta	indards and regulations		
	Standard designation	EMV	
	Standards/specifications	EN 61000-6-3	
	Note	Interference emission	
	Standard designation	EMV	
	Standards/specifications	EN 61000-6-2	
	Note	Noise immunity	
Mounting			
IVIO	unung		
	Mounting type	on base element	



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# Classifications

#### **ECLASS**

	ECLASS-11.0	27140401		
	ECLASS-12.0	27140401		
	ECLASS-13.0	27140401		
ETIM				
	ETIM 9.0	EC003538		
UNSPSC				
	UNSPSC 21.0	39121400		



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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